

CLAIMS

[1] An apparatus for analyzing nitropolycyclic aromatic hydrocarbon, comprising:

    a separation column for separating an isomer of nitropolycyclic aromatic hydrocarbon;  
    a reduction column for aminating the separated nitropolycyclic aromatic hydrocarbon; and  
    a fluorescence detector.

[2] An apparatus for analyzing nitropolycyclic aromatic hydrocarbon, comprising:

    a separation column for separating an isomer of nitropolycyclic aromatic hydrocarbon;  
    a reduction column for aminating the separated nitropolycyclic aromatic hydrocarbon;  
    an analysis column for separating an interfering component contained in the detection material; and  
    a fluorescence detector.

[3] The apparatus for analyzing nitropolycyclic aromatic hydrocarbon according to claims 1 or 2, wherein the separation column is a silica gel/C8 column.

[4] The apparatus for analyzing nitropolycyclic aromatic hydrocarbon according to any one of claims 1 through 3, wherein

the reduction column is an alumina/Pt-Rh reduction column.

[5] A method for analyzing nitropolycyclic aromatic hydrocarbon, comprising:

a step of separating an isomer of nitropolycyclic aromatic hydrocarbon using a separation column;

a step of aminating the separated nitropolycyclic aromatic hydrocarbon using a reduction column; and

a step of performing fluorescence detection.

[6] A method for analyzing nitropolycyclic aromatic hydrocarbon, comprising:

a step of separating an isomer of nitropolycyclic aromatic hydrocarbon using a separation column;

a step of aminating the separated nitropolycyclic aromatic hydrocarbon using a reduction column;

a step of separating an interfering component contained in the detection material; and

a step of performing fluorescence detection.

[7] The method for analyzing nitropolycyclic aromatic hydrocarbon according to claims 5 or 6, wherein the separation column is a silica gel/C8 column.

[8] The apparatus for analyzing nitropolycyclic aromatic hydrocarbon according to claims 5 or 6, wherein the reduction

column is an alumina/Pt-Rh reduction column.